

537,771
10/537771

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
24 June 2004 (24.06.2004)

PCT

(10) International Publication Number
WO 2004/053289 A1

(51) International Patent Classification⁷: **E21B 33/126**

William [CA/CA]; 1831 104A Street NW, Edmonton, Alberta T6J 5C1 (CA).

(21) International Application Number:

PCT/CA2003/001890

(74) Agent: BENNETT JONES LLP; Roseann Caldwell, 4500 Bankers Hall East, 855 - 2nd Street SW, Calgary, Alberta T2P 4K7 (CA).

(22) International Filing Date: 8 December 2003 (08.12.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

(26) Publication Language: English

(30) Priority Data:

60/431,227 6 December 2002 (06.12.2002) US
2,444,648 9 October 2003 (09.10.2003) CA

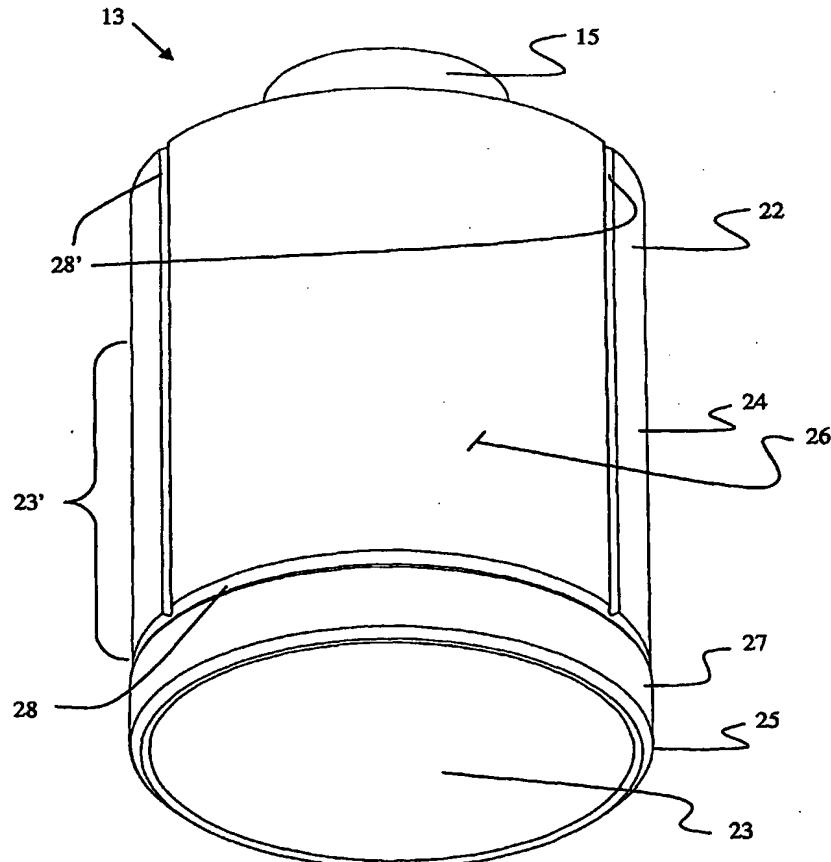
(71) Applicant (*for all designated States except US*): TESCO CORPORATION [CA/CA]; 6204 - 6A Street SE, Calgary, Alberta T2H 2B7 (CA).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): SLACK, Maurice,

[Continued on next page]

(54) Title: SEAL CUP FOR A WELLBORE TOOL AND METHOD



(57) Abstract: A seal cup and method is disclosed that can be used on a wellbore tool. The seal cup includes an external circumferential seal land adjacent the cup lip and an outer surface capable of permitting drainage away from the seal land of fluids, which may seep past the seal land. This acts against pressure invasion in the interfacial contacting region between the seal cup and the structure, for example, a wellbore liner against which it is sealed.

WO 2004/053289 A1